

Group 2 Challenge:

Using the Fast Plants “cookbook” directions, think carefully about how this activity could be rewritten to focus on Colorado and National Science content standards. List the standards that would be addressed if the objective of the lesson was each of the following:

1. A lesson on comparing and contrasting natural and artificial evolution
Standards 1 and 3; specifically 1.2, 3.12, 3.13, 3.15, 3.17
Try to attain an experiment performed with the plants in the natural environment
Have students develop Venn diagram comparing and contrasting natural and artificial evolution
2. A lesson on plant biology and reproduction
Standard 3; specifically 3.10, 3.1
Instead of discarding plants have students make slides and observe roots, leaves, etc under microscope
3. A lesson on the scientific method and nature of science.
Standards 1 and 5; specifically 1.2, 5.3
Have student state hypothesis and analyze throughout the lab

What skills would be reinforced or introduced in these three variations?

Following directions

Data tables

Graphs

Lab notebook format/organization

Process and analyze data

Observation

Performing calculations

Horticulture

Remember a skill can be used all throughout the course (measuring, graphing, writing, etc.)